

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040522\
 Data File : VL038829.D
 Acq On : 6 Apr 2022 11:47
 Operator : SY/AP
 Sample : N2235-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Apr 07 03:11:12 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1438742	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3634593	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3152901	10.00	ppbv	0.02

System Monitoring Compounds

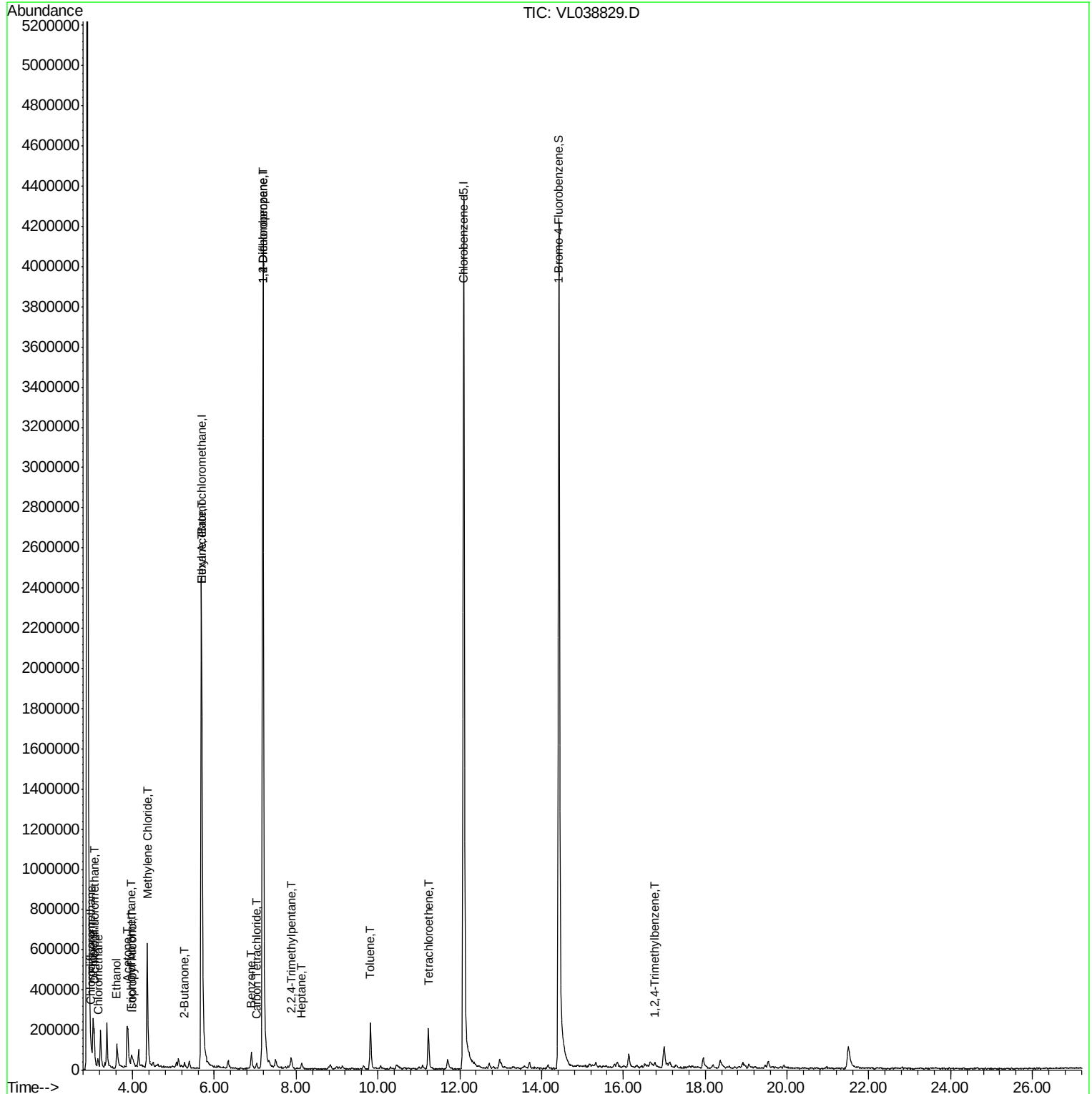
68) 1-Bromo-4-Fluorobenzene	14.43	95	2520807	10.54	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

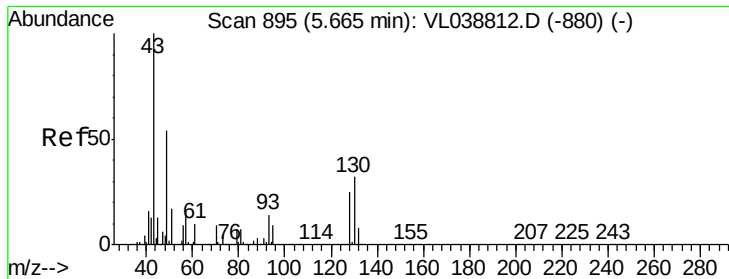
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	135125	0.662	ppbv	100
3) Chlorodifluoromethane	3.00	51	80835	0.460	ppbv #	90
4) Chloromethane	3.16	50	42555	0.468	ppbv	97
9) Propene	3.03	41	33812	0.364	ppbv #	76
10) Heptane	8.14	43	10910	0.047	ppbv #	54
11) Trichlorofluoromethane	3.97	101	32700	0.199	ppbv #	78
13) Ethanol	3.62	45	140367	24.863	ppbv #	100
15) Acetone	3.86	43	304410	2.125	ppbv	96
19) Isopropyl Alcohol	4.00	45	7139	0.098	ppbv #	100
20) Methylene Chloride	4.36	84	256129	4.930	ppbv	99
25) Ethyl Acetate	5.70	43	159584	0.439	ppbv #	80
26) Hexane	5.70	57	247889	1.498	ppbv #	39
34) 2-Butanone	5.27	43	25692	0.179	ppbv #	76
35) Carbon Tetrachloride	7.02	117	6923	0.032	ppbv #	63
36) Benzene	6.90	78	70984	0.215	ppbv	94
39) 1,2-Dichloropropane	7.19	63	907449	7.175	ppbv #	26
44) 2,2,4-Trimethylpentane	7.88	57	24075	0.043	ppbv #	22
52) Tetrachloroethene	11.22	164	11832	0.102	ppbv	94
53) Toluene	9.82	91	177469	0.465	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	14288	0.034	ppbv #	60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 Apr 2022 11:47

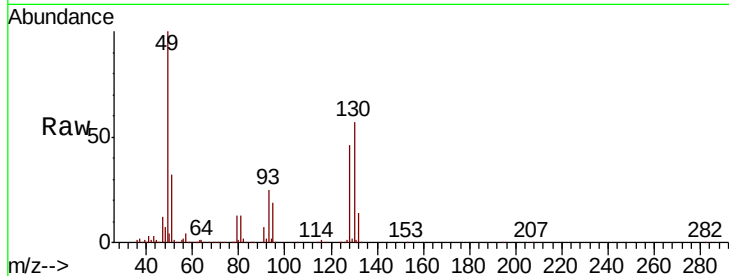
Tot Ion: 49 Resp: 1438742

Ion Ratio Lower Upper

49 100

128 47.5 24.1 72.3

130 59.8 30.9 92.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

200000

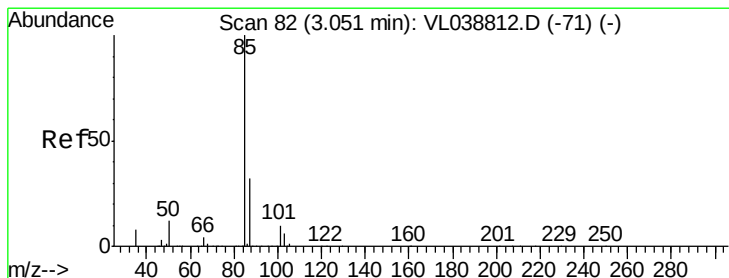
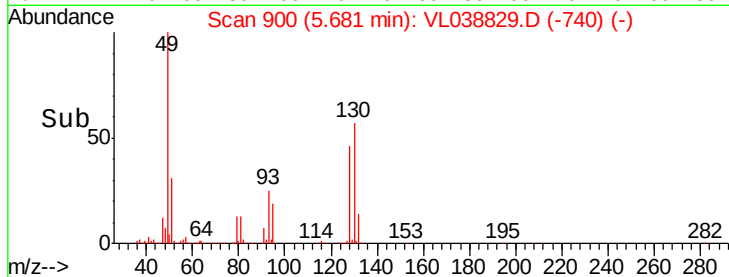
0

5.60

5.70

5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.662 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL038829.D

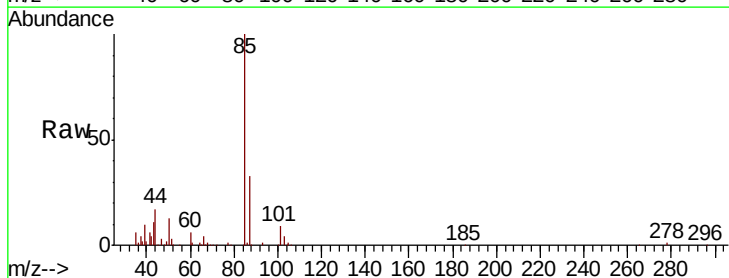
Acq: 6 Apr 2022 11:47

Tgt Ion: 85 Resp: 135125

Ion Ratio Lower Upper

85 100

87 32.7 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

80000

60000

40000

20000

0

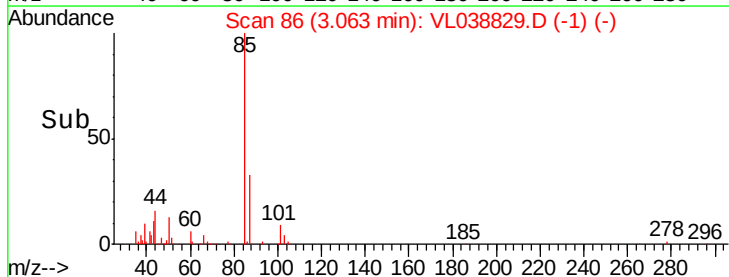
3.00

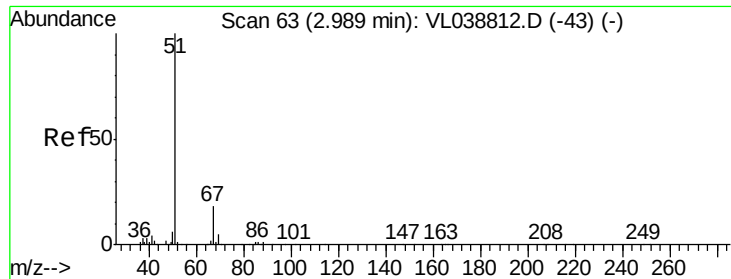
3.05

3.10

3.15

Time-->





#3

Chlorodifluoromethane

Concen: 0.460 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

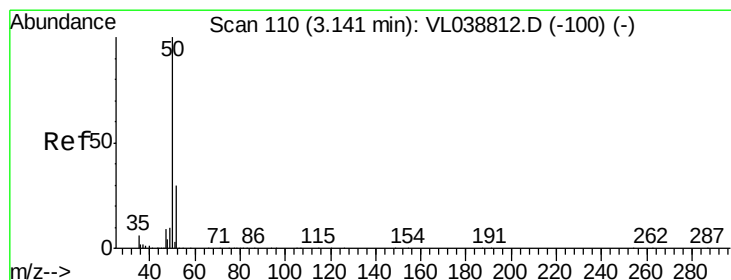
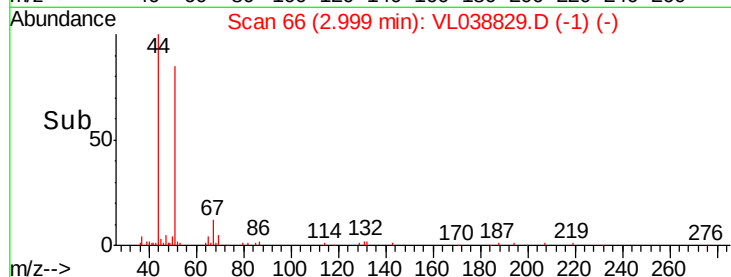
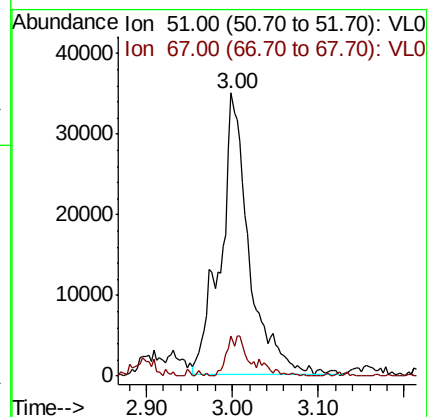
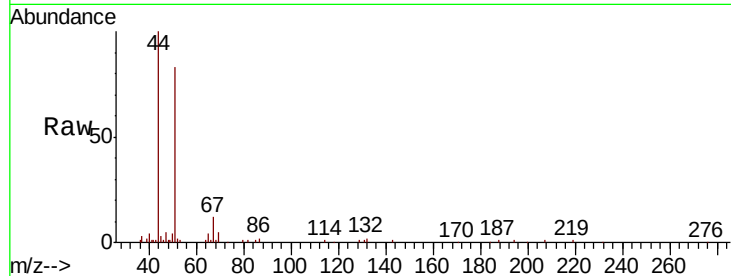
Acq: 6 Apr 2022 11:47

Tot Ion: 51 Resp: 80835

Ion Ratio Lower Upper

51 100

67 12.6 13.4 20.0#



#4

Chloromethane

Concen: 0.468 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL038829.D

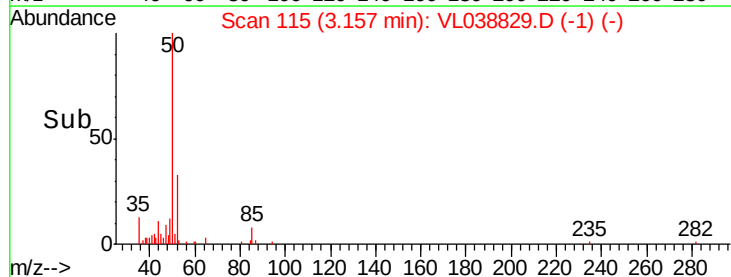
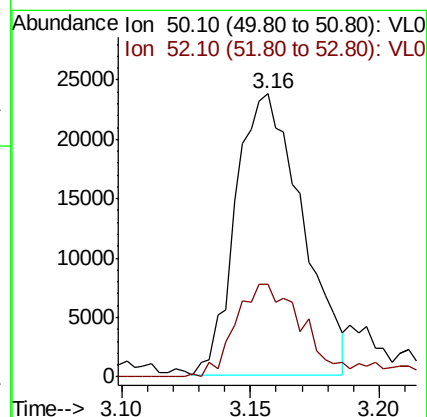
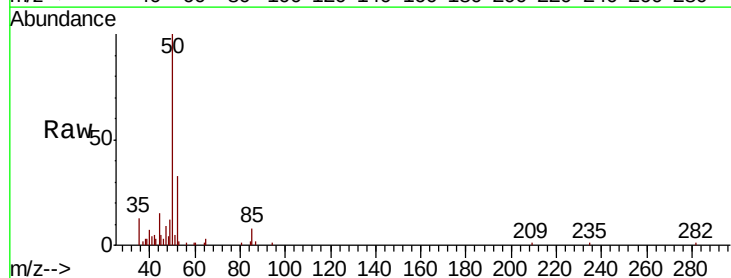
Acq: 6 Apr 2022 11:47

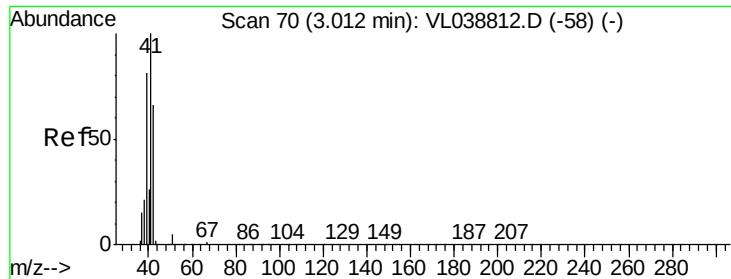
Tgt Ion: 50 Resp: 42555

Ion Ratio Lower Upper

50 100

52 32.2 24.3 36.5





#9

Propene

Concen: 0.364 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

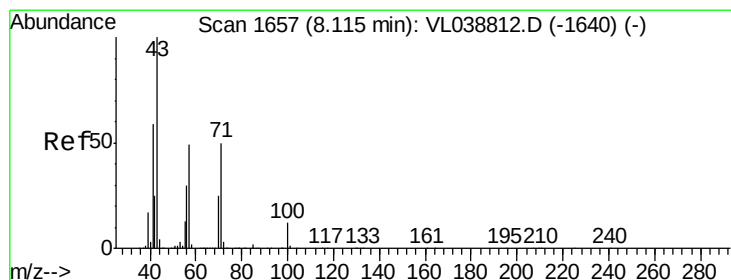
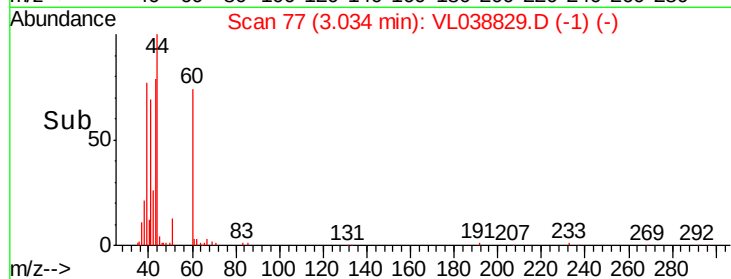
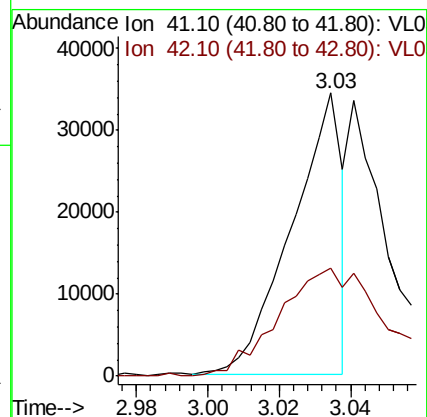
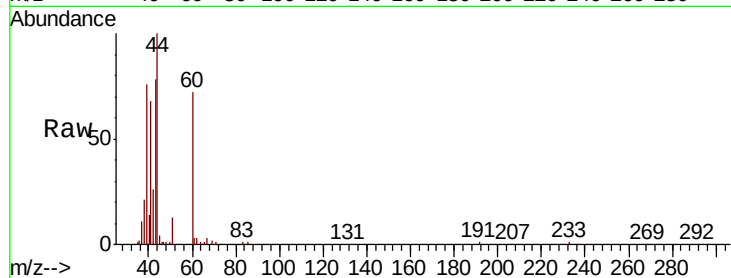
Acq: 6 Apr 2022 11:47

Tot Ion: 41 Resp: 33812

Ion Ratio Lower Upper

41 100

42 87.1 54.2 81.4#



#10

Heptane

Concen: 0.047 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.02 min

Lab File: VL038829.D

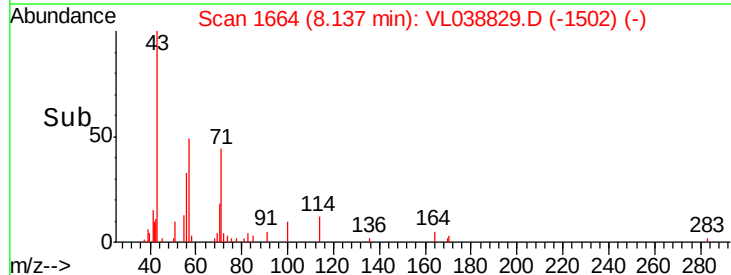
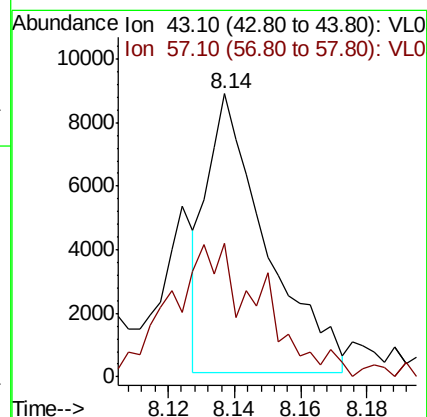
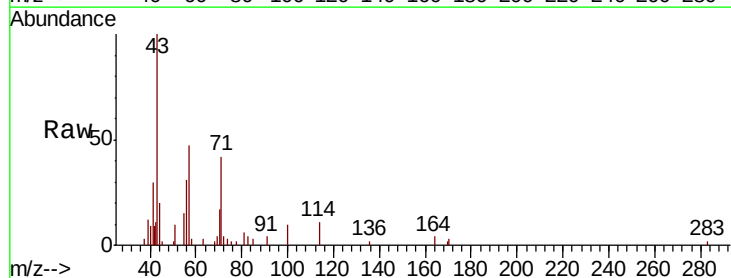
Acq: 6 Apr 2022 11:47

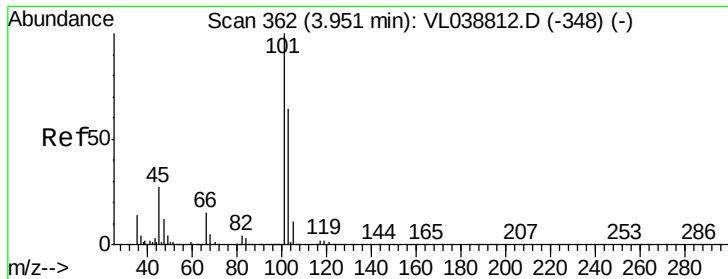
Tgt Ion: 43 Resp: 10910

Ion Ratio Lower Upper

43 100

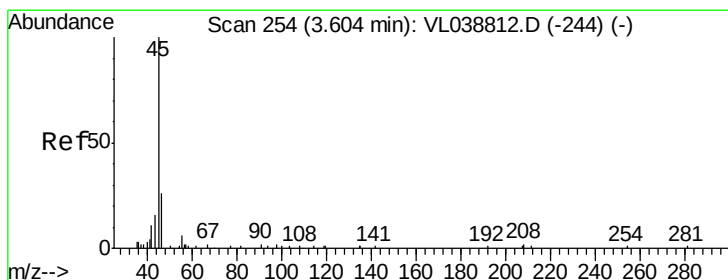
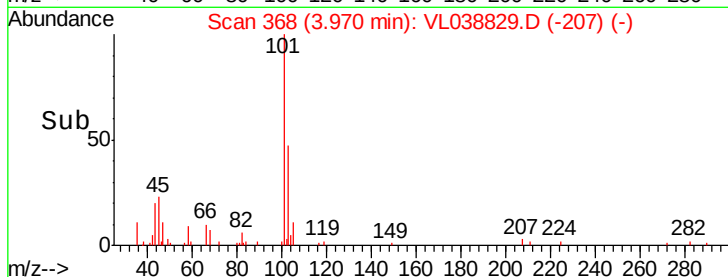
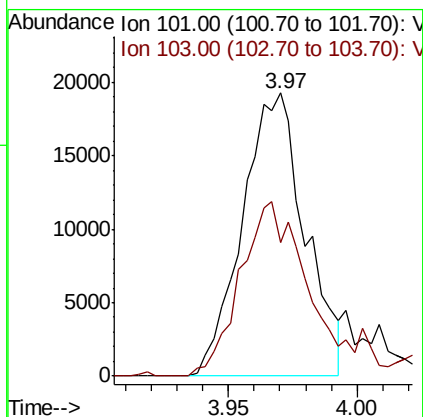
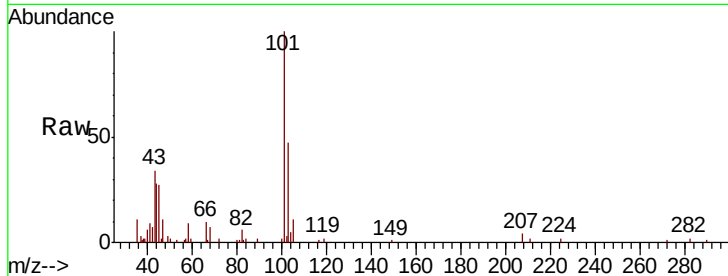
57 80.7 39.3 58.9#





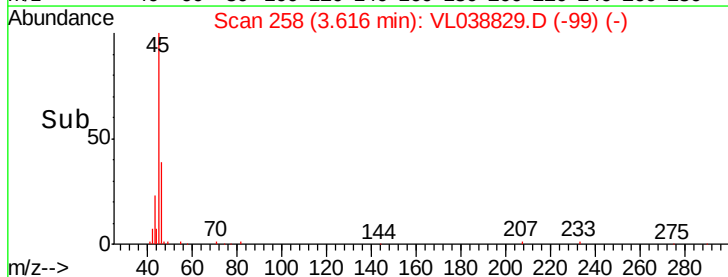
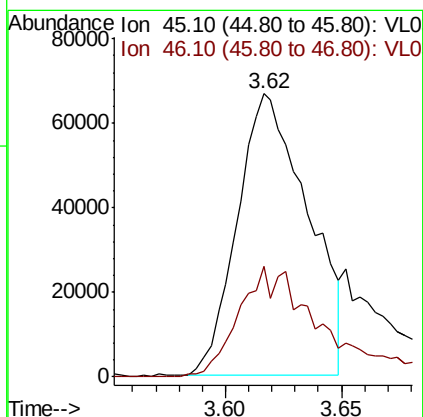
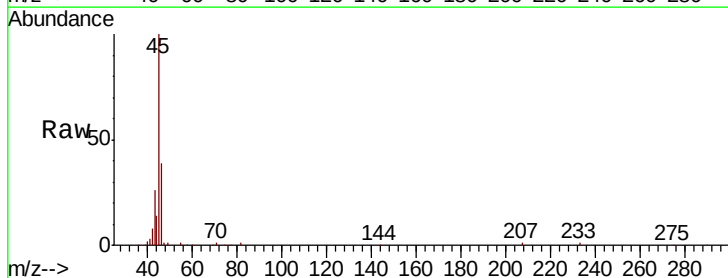
#11
 Trichlorofluoromethane
 Concen: 0.199 ppbv
 RT: 3.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 11:47

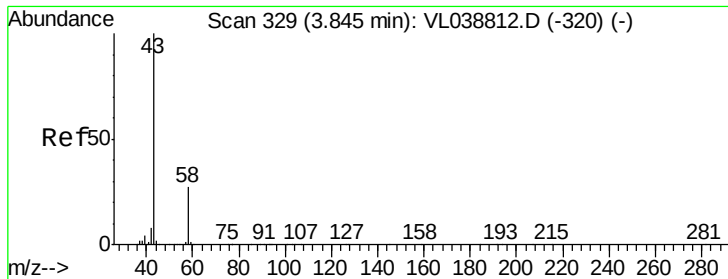
Tot Ion:101 Resp: 32700
 Ion Ratio Lower Upper
 101 100
 103 47.1 51.4 77.0#



#13
 Ethanol
 Concen: 24.863 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VL038829.D
 Acq: 6 Apr 2022 11:47

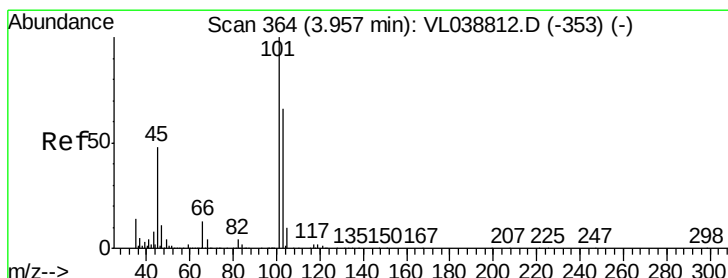
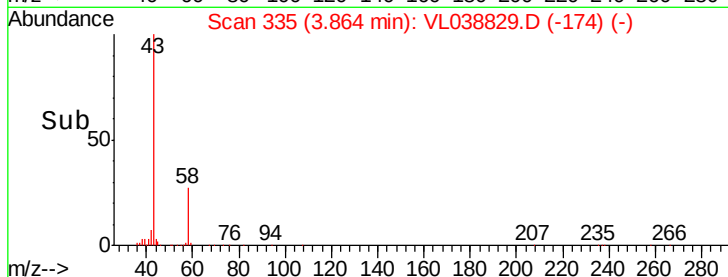
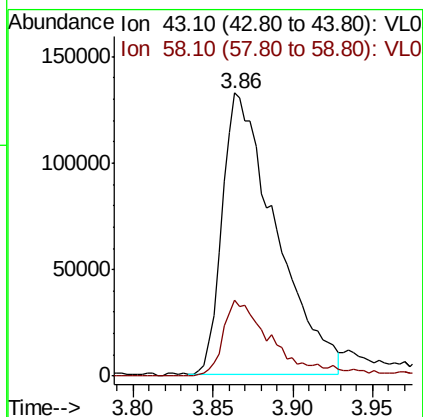
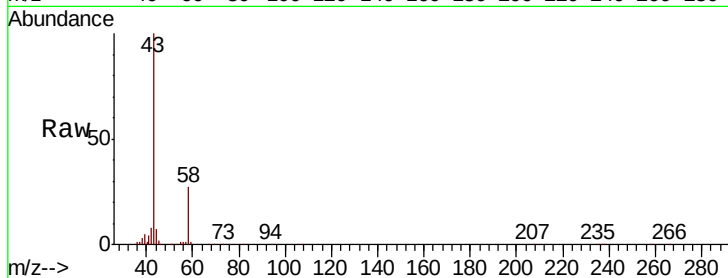
Tgt Ion: 45 Resp: 140367
 Ion Ratio Lower Upper
 45 100
 46 47.1 0.0 0.0#





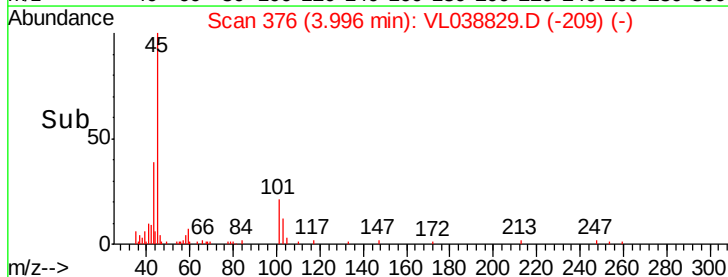
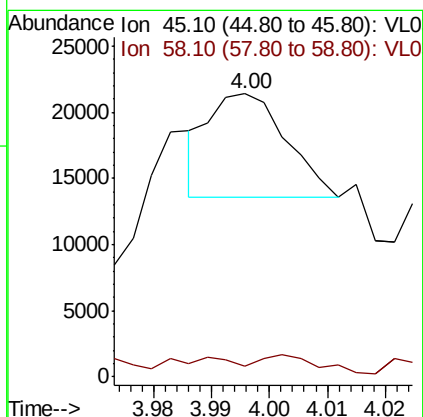
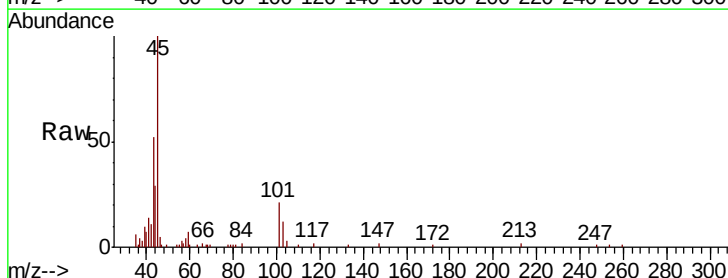
#15
Acetone
Concen: 2.125 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 6 Apr 2022 11:47

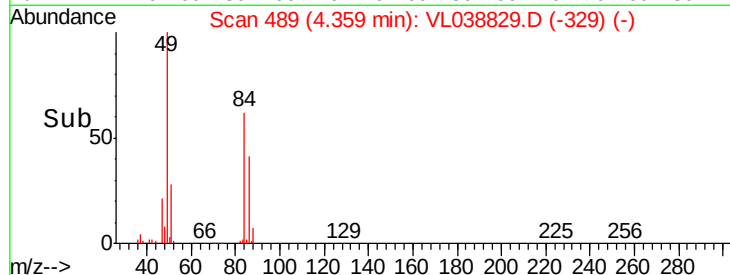
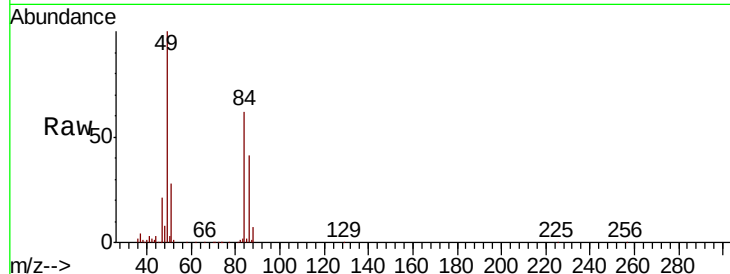
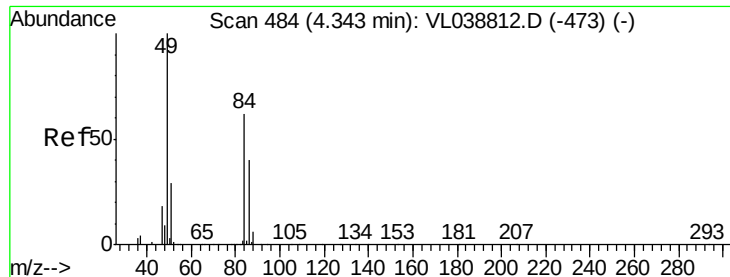
Tot Ion: 43 Resp: 304410
Ion Ratio Lower Upper
43 100
58 25.8 22.5 33.7



#19
Isopropyl Alcohol
Concen: 0.098 ppbv
RT: 4.00 min Scan# 376
Delta R.T. 0.04 min
Lab File: VL038829.D
Acq: 6 Apr 2022 11:47

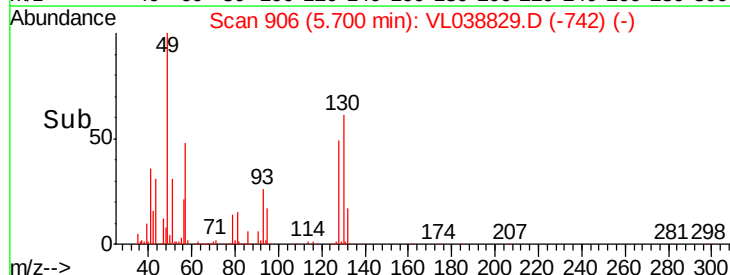
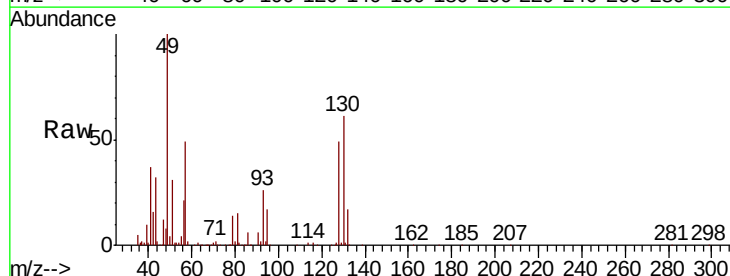
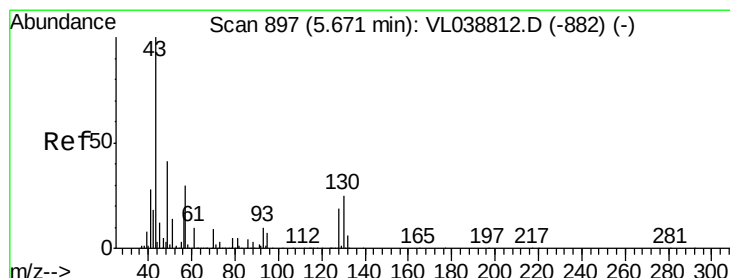
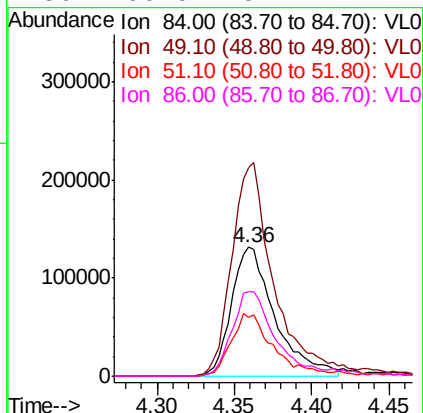
Tgt Ion: 45 Resp: 7139
Ion Ratio Lower Upper
45 100
58 41.4 0.0 0.0#





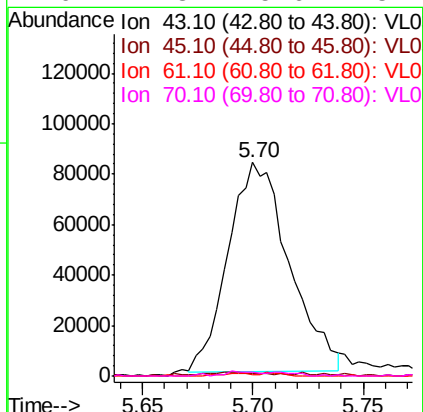
#20
Methylene Chloride
Concen: 4.930 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 6 Apr 2022 11:47

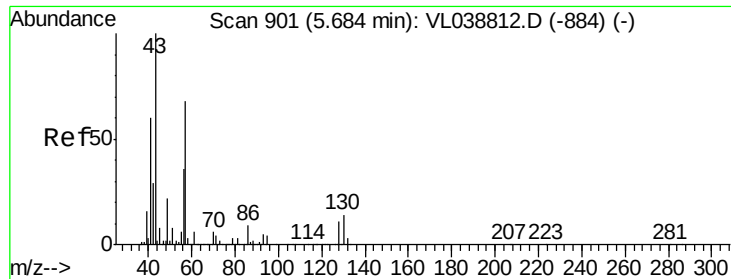
Tot Ion:	84	Resp:	256129
Ion	Ratio	Lower	Upper
84	100		
49	161.8	129.4	194.0
51	45.5	37.4	56.2
86	66.0	51.4	77.2



#25
Ethyl Acetate
Concen: 0.439 ppbv
RT: 5.70 min Scan# 906
Delta R.T.: 0.03 min
Lab File: VL038829.D
Acq: 6 Apr 2022 11:47

Tgt Ion:	43	Resp:	159584
Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.4	12.6#
61	1.1	7.9	11.9#
70	2.3	5.6	8.4#





#26

Hexane

Concen: 1.498 ppbv

RT: 5.70

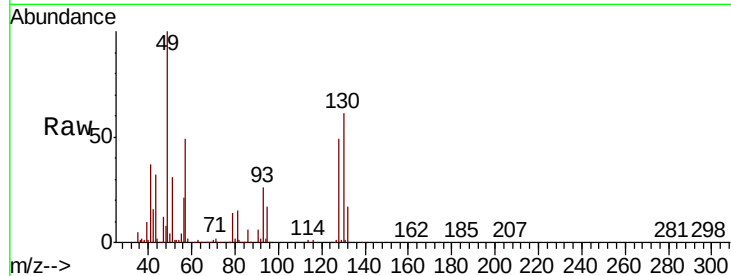
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

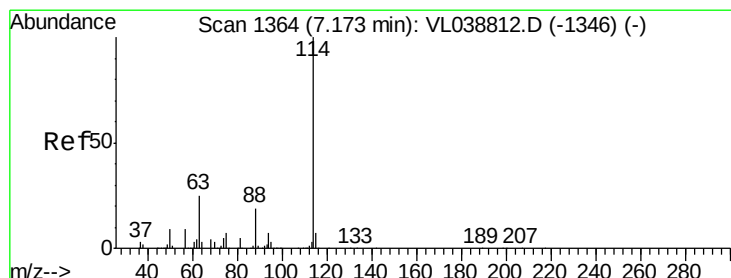
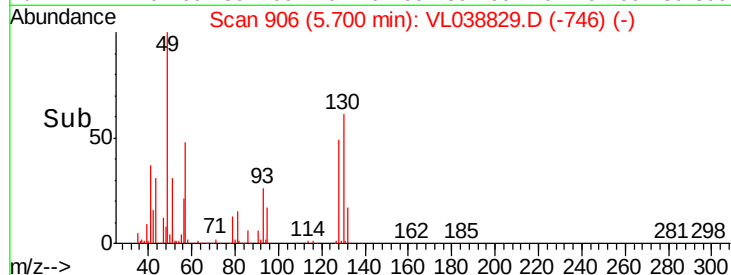
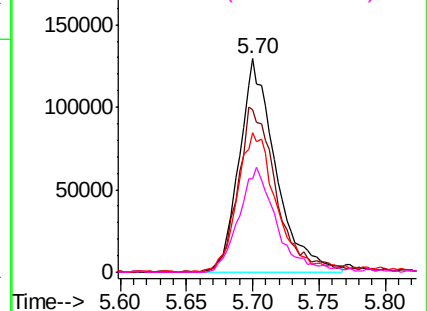
Acq: 6 Apr 2022 11:47

Tot Ion: 57 Resp: 247889

Ion	Ratio	Lower	Upper
57	100		
41	81.6	72.0	108.0
43	74.8	186.6	280.0#
56	52.0	42.8	64.2



Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

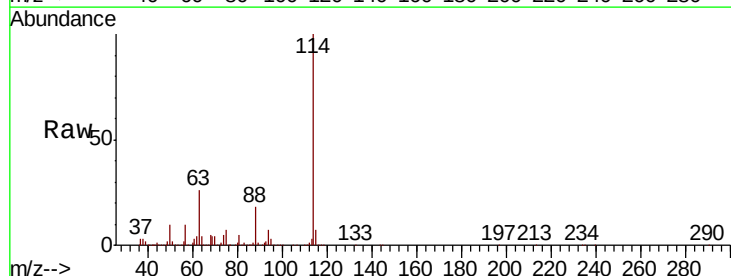
Delta R.T. 0.01 min

Lab File: VL038829.D

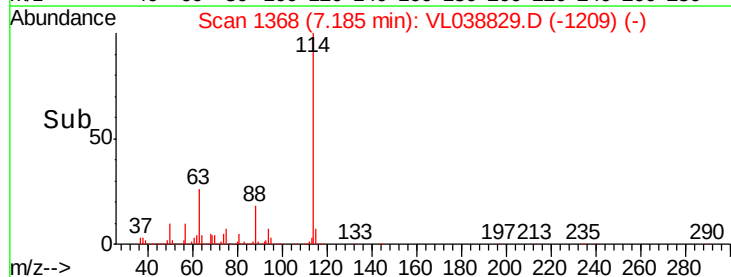
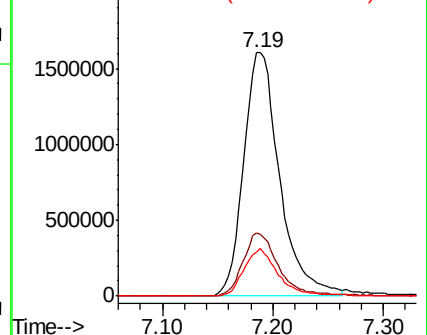
Acq: 6 Apr 2022 11:47

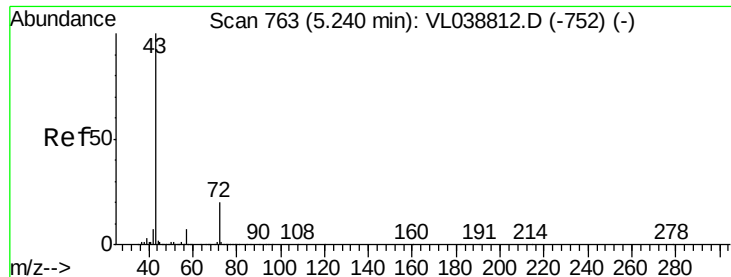
Tgt Ion: 114 Resp: 3634593

Ion	Ratio	Lower	Upper
114	100		
63	26.0	19.8	29.8
88	18.7	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.179 ppbv

RT: 5.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

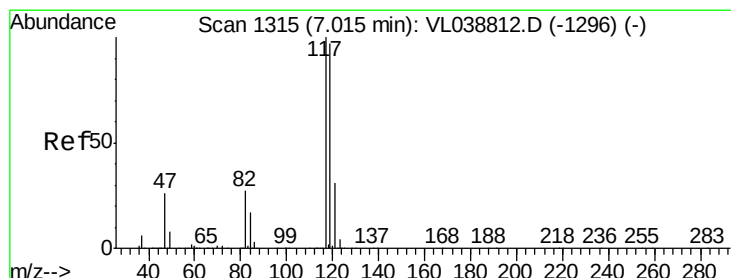
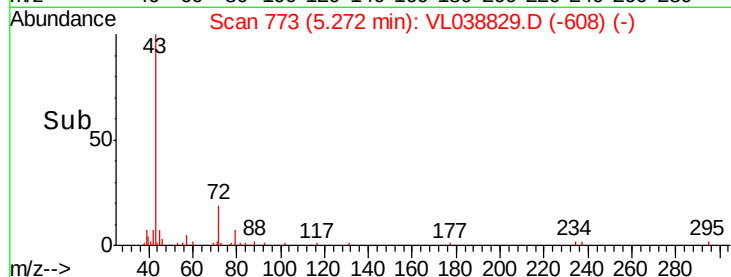
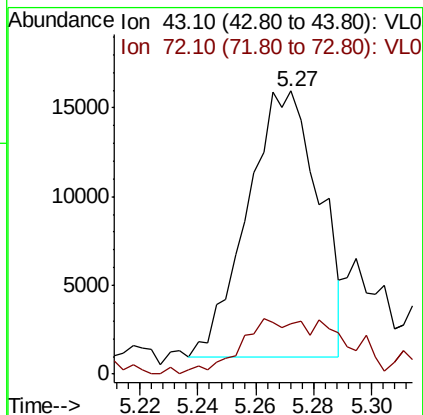
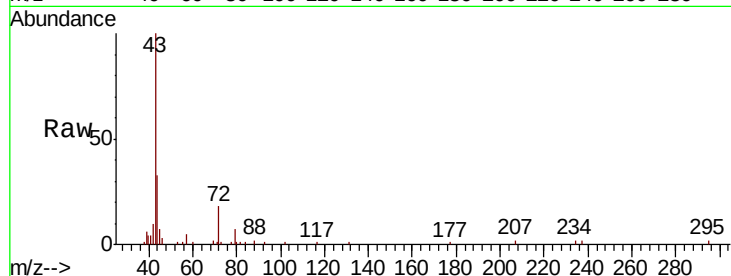
Acq: 6 Apr 2022 11:47

Tot Ion: 43 Resp: 25692

Ion Ratio Lower Upper

43 100

72 32.5 16.9 25.3#



#35

Carbon Tetrachloride

Concen: 0.032 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VL038829.D

Acq: 6 Apr 2022 11:47

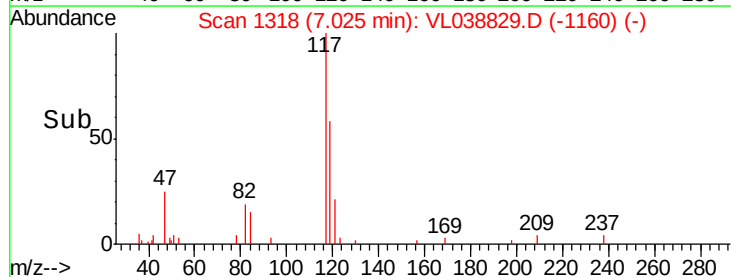
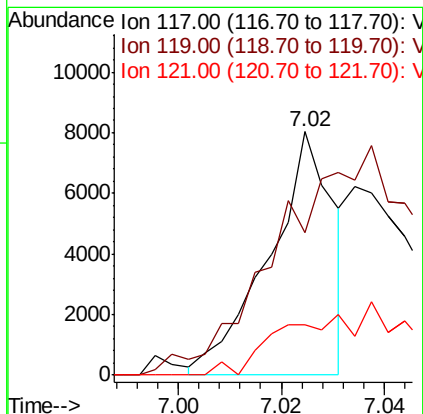
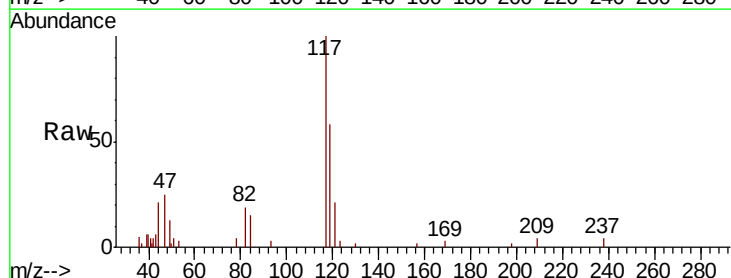
Tgt Ion: 117 Resp: 6923

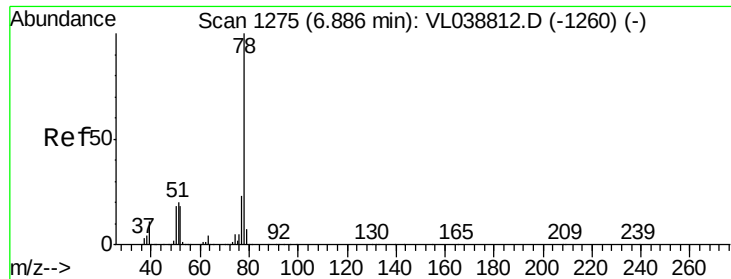
Ion Ratio Lower Upper

117 100

119 53.8 77.7 116.5#

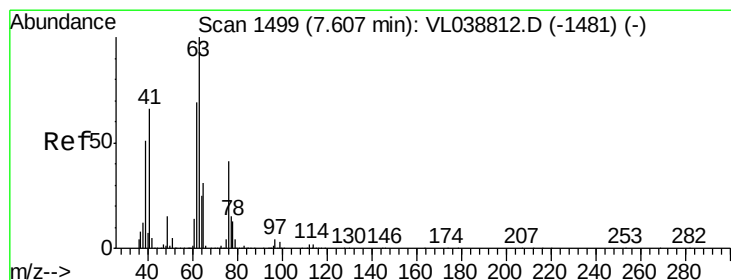
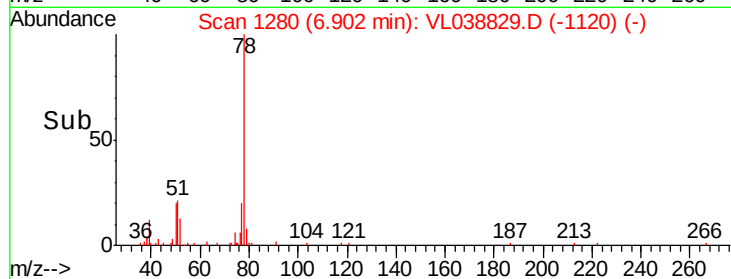
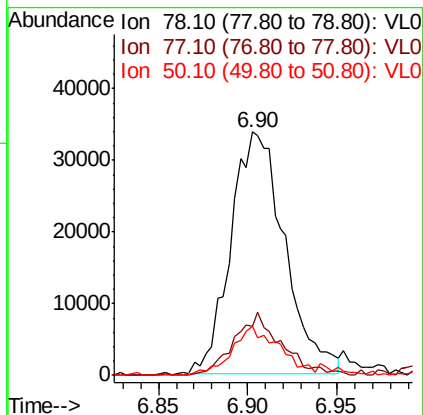
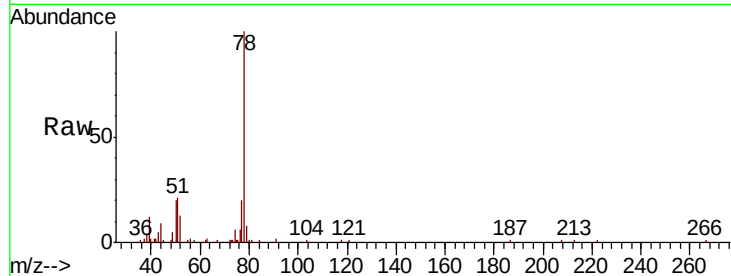
121 21.7 24.5 36.7#





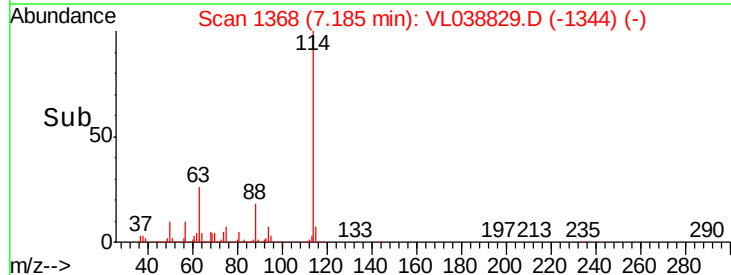
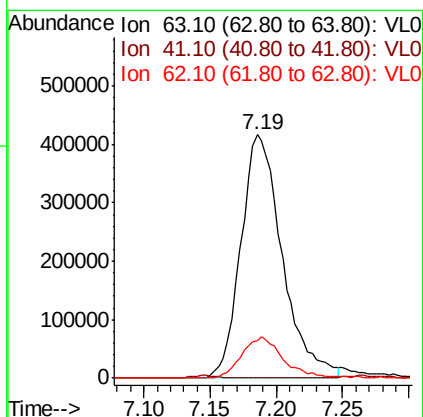
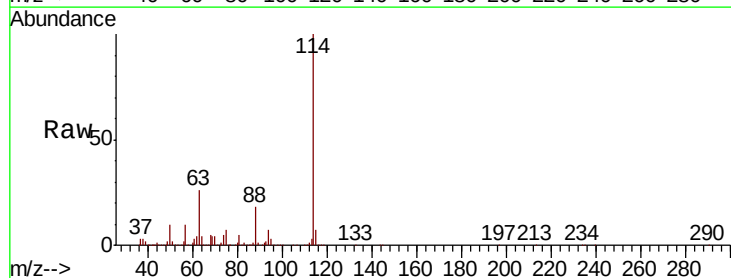
#36
Benzene
Concen: 0.215 ppbv
RT: 6.90
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 6 Apr 2022 11:47

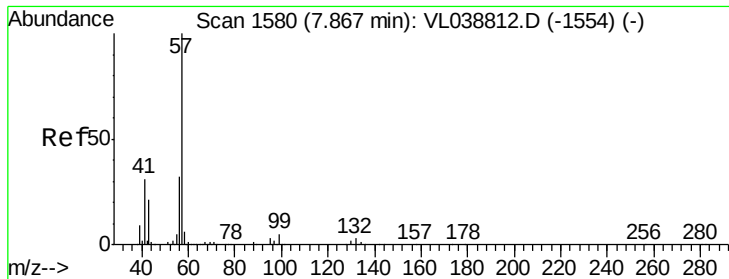
Tot Ion	78	Resp	70984
Ion	Ratio	Lower	Upper
78	100		
77	20.0	18.2	27.2
50	20.0	14.0	21.0



#39
1,2-Dichloropropane
Concen: 7.175 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.42 min
Lab File: VL038829.D
Acq: 6 Apr 2022 11:47

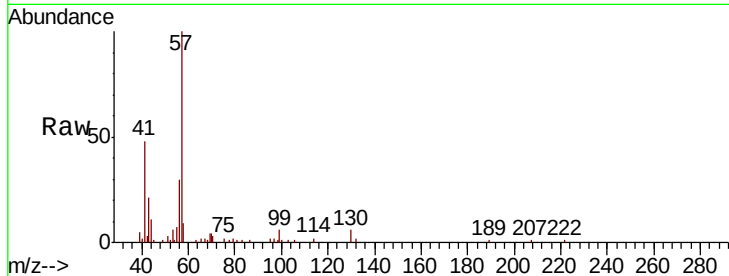
Tgt Ion	63	Resp	907449
Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	15.4	55.0	82.4#





#44
 2,2,4-Trimethylpentane
 Concen: 0.043 ppbv
 RT: 7.88
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 11:47

Tot Ion:	57	Resp:	24075
Ion	Ratio	Lower	Upper
57	100		
41	86.2	25.0	37.4#
56	0.0	25.3	37.9#

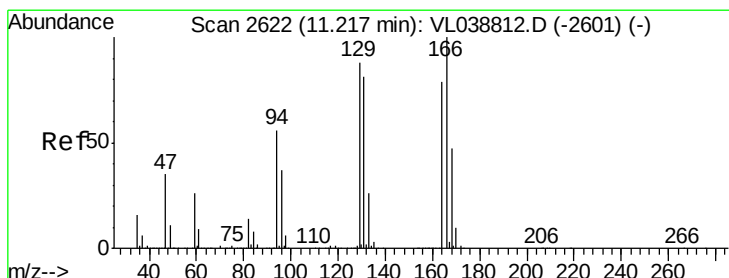
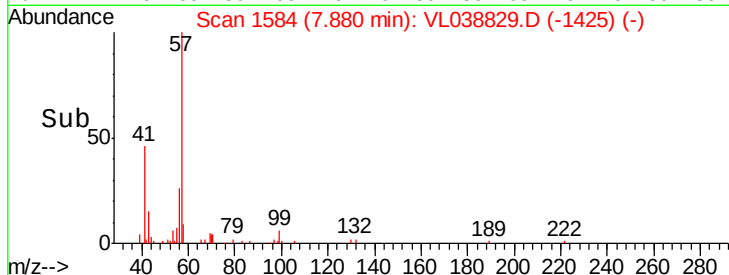
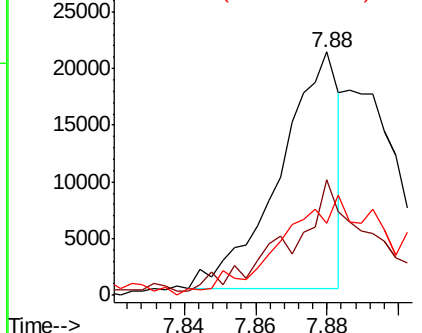


Abundance

Ion 57.10 (56.80 to 57.80): VL0

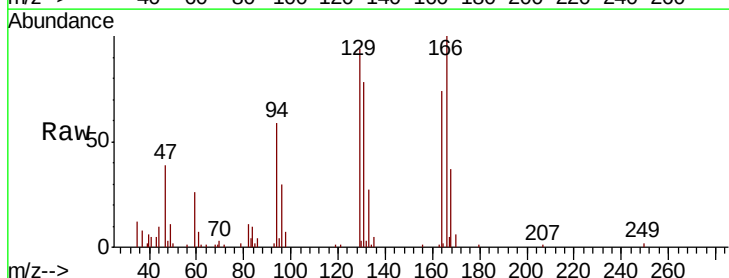
Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52
 Tetrachloroethene
 Concen: 0.102 ppbv
 RT: 11.22 min Scan# 2623
 Delta R.T. 0.00 min
 Lab File: VL038829.D
 Acq: 6 Apr 2022 11:47

Tgt Ion:	164	Resp:	11832
Ion	Ratio	Lower	Upper
164	100		
166	129.7	101.0	151.6
129	124.6	88.7	133.1
131	98.7	81.8	122.6



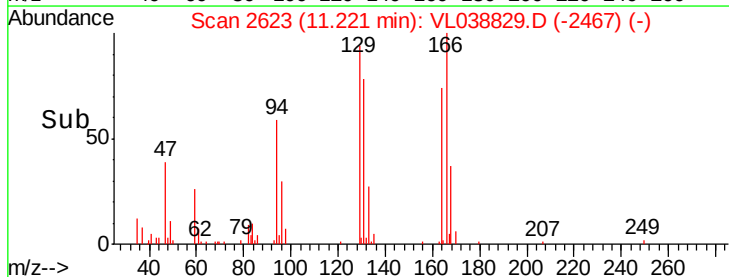
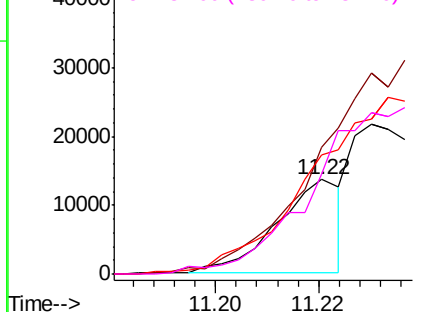
Abundance

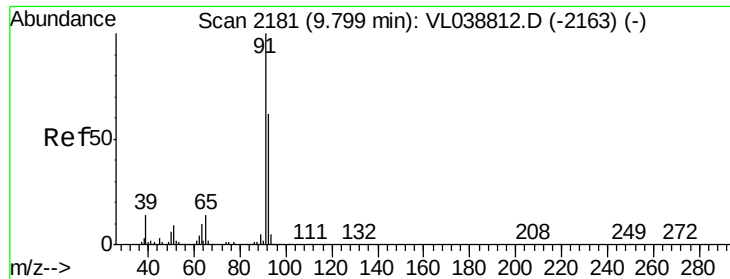
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.465 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

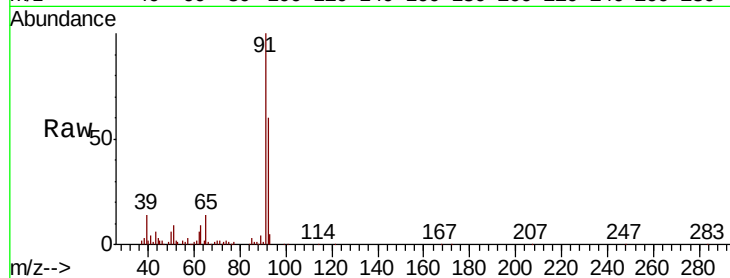
Acq: 6 Apr 2022 11:47

Tot Ion: 91 Resp: 177469

Ion Ratio Lower Upper

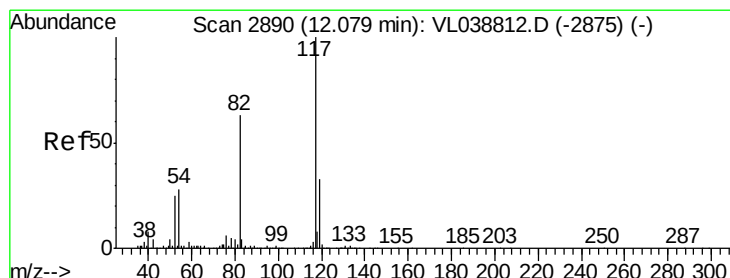
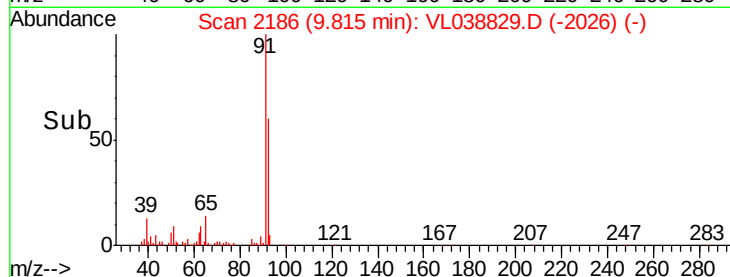
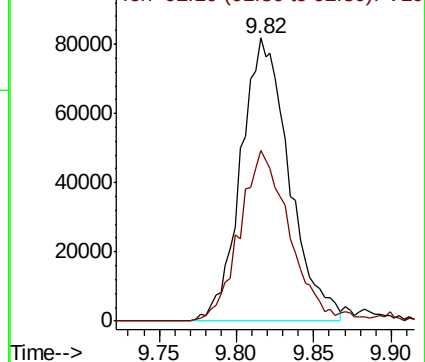
91 100

92 63.8 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.02 min

Lab File: VL038829.D

Acq: 6 Apr 2022 11:47

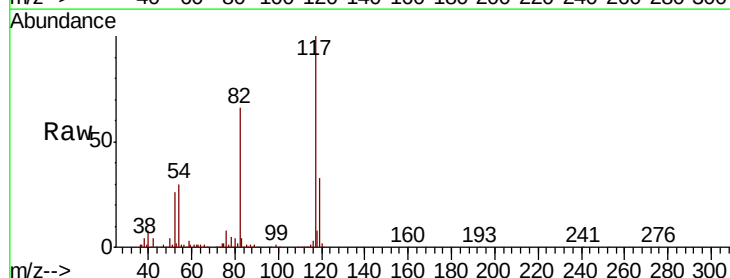
Tgt Ion: 117 Resp: 3152901

Ion Ratio Lower Upper

117 100

82 70.2 53.0 79.6

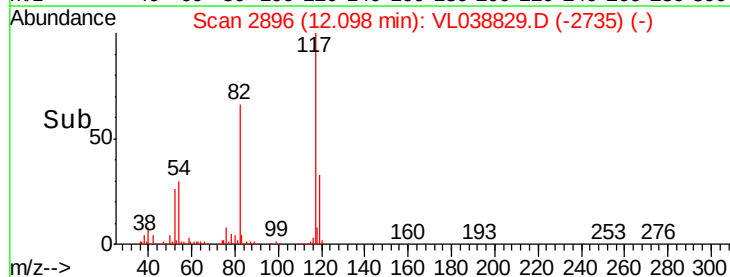
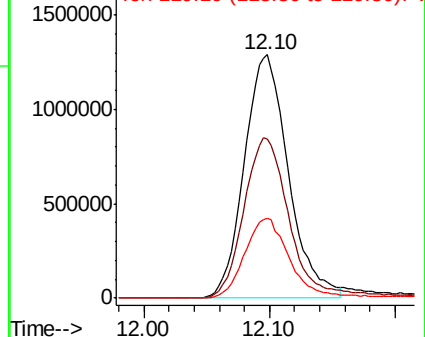
119 34.3 24.9 37.3

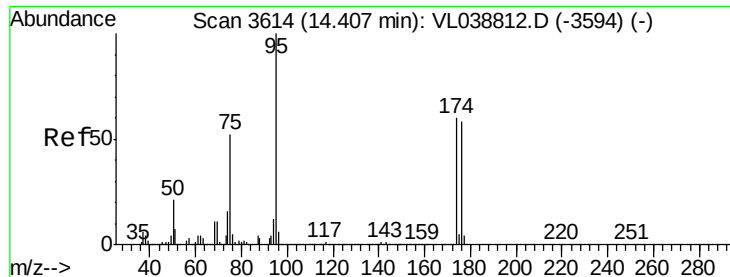


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

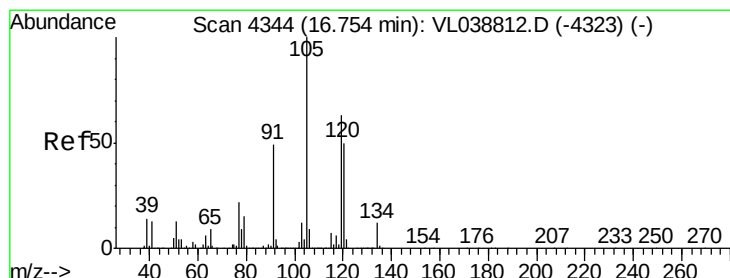
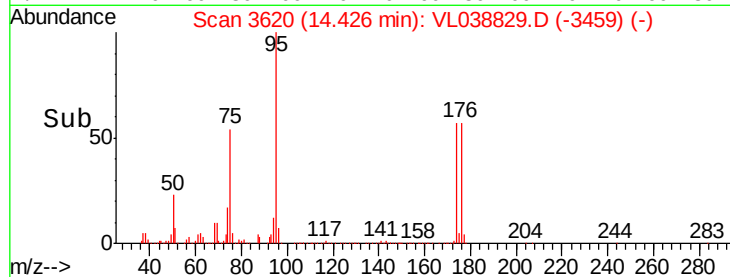
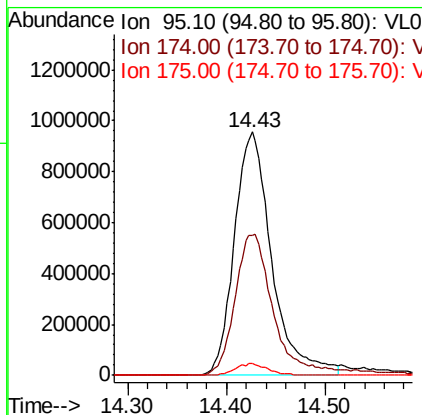
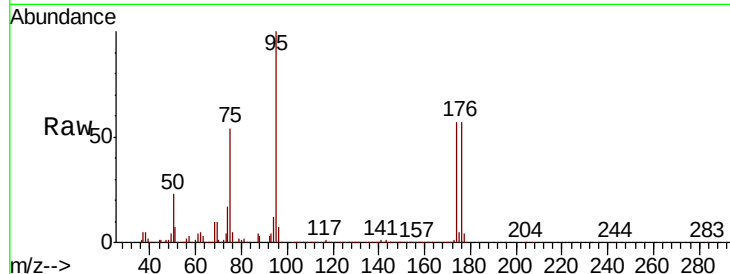
Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.540 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 Apr 2022 11:47

Tot Ion: 95 Resp: 2520807
 Ion Ratio Lower Upper
 95 100
 174 62.3 52.0 78.0
 175 4.5 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.02 min
 Lab File: VL038829.D
 Acq: 6 Apr 2022 11:47

Tgt Ion:105 Resp: 14288
 Ion Ratio Lower Upper
 105 100
 120 37.8 39.8 59.8#
 91 3.9 39.4 59.0#
 77 7.1 17.3 25.9#

